# DRAFT | jhr Approved For Release 2003/03/28 : CIA-RDP78B05171A000200039010-4

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We have been asked to discuss in detail specific projects which we	
would undertake along with our relative priorities and the funding required	
for each if in FY-71 a 25% higher funding level became available. This	
amounts to additional funding. Here once again, it is easier to deal	
in technical areas or categories rather than projects, giving specific proj-	
ects where they are known or can be anticipated. In the area of imagery	
interpretation equipment and techniques, one area requiring further research	
and development during this time frame is improving display devices of the	
rear projection variety, i.e., broad area displays which more than one per-	
son can view at the same time. Breakthroughs are required in the development	
of those display techniques and equipment which permit both high resolution	
and excellent contrast rendition at the same time, e.g., a high fidelity	
system. Toward this end, image intensifier type screen systems would be studied	
and some promising digital image display techniques and approaches would be	
breadboarded. Each of these projects would absorb approximately for	25X <sup>2</sup>
a total of	
A greater portion of the total cost of the PI Correlated Stereogram	
Maker would be funded in FY 71 for a total investment in FY-71 of	25X′
This is an increase of could be used in in-	
creasing efforts toward Product Improvement and Updating. The majority of	
this investment would be utilized to apply the wide-field high-power anamorphic	•
stereoviewer optical head to other pieces of Center equipment, such as the	
Twin Stage Chip Comparators. We would anticipate expending towards the	25X <sup>2</sup>
development of a Reversal Polarity Viewer. This is an optical rather than	
an electronic system by which a negative can be viewed as a positive and a	

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positive as a negative.

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Research would be conducted into the automation of comparators, i.e.,	
combining the best features of current comparators and microdensitometers	
into one piece of automated equipment, at a cost of An additional	25X <sup>2</sup>
would be utilized in a parallel effort directed towards the solution	
of the automatic change detection problem, thereby increasing the probability	
of technical success at an earlier date.	
In the area of image analysis, would be utilized to expand our	25X <sup>2</sup>
work in the Analog (optical) Image Restoration and Manipulation area. The	
Photo Image Manipulation Viewer, currently funded for in FY 71, would	25X
go through feasibility study, engineering design, and fabrication in FY 71,	
instead of being split-funded and phased over FY 71 and FY 72. This would	
utilize an additional for a total FY 71 funding of	25X <sup>2</sup>
Finally, an additional could be used in the area of Imagery	
Interpretation Research to develop superior equipment training packages to	

Interpretation Research to develop superior equipment training packages to insure that our highly sophisticated new systems will be used at maximum efficiency.

These are the basic areas in which the additional funding could be utilized. It is extremely difficult, if not impossible, to assign priorities at this time since priorities are basically established in relationship to operational requirements or based upon the relationship of a technological base to some oncoming piece of equipment. In the latter situation, we would require a much more detailed knowledge of specific projects in the FY-72-75 time frame while in the former case we would require a better knowledge of future requirements than is now available. The project/areas discussed have been listed in tabular form to facilitate rapid reference.

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## SPECIFIC ADDITIONAL PROJECTS IF FY-71 FUNDING INCREASED 25%

# Project/Program Image Intensifier Screen System Image Display Techniques Automatic Change Detection (Parallel Effort) Automated Comparator Analog Image Restoration and Manipulation Image Manipulation Viewer (Increased Funding) PT Correlated Stereogram Maker (Increased Funding) Product Improvement (Increased Funding) Reversal Polarity Viewer Imagery Interpretation Research(Increased Funding)

25X1

TOTAL